

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF:

YUQI CAI ET AL.

CASE NO.: DC8503 US NA

APPLICATION NO.: To Be Assigned

CONFIRMATION NO.: 1110

GROUP ART UNIT:

EXAMINER:

FILED: CONCURRENTLY HERewith

FOR: COMPOSITION AND METHOD FOR MAKING FUEL CELL COLLECTOR  
PLATES WITH IMPROVED PROPERTIES

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants would like to bring to the attention of the U.S. Patent and Trademark Office information that may be helpful in the examination of the above-identified patent application. All of the information is listed on an attached Form PTO/SB/08. A copy of the information, when required, is attached hereto.

Enclosed is a Form PTO/SB/17 authorizing the associated fee to be charged to a Deposit Account of **E. I. du Pont de Nemours and Company**.

Respectfully submitted,

*Daphne P. Fickes*  
**DAPHNE P FICKES**  
ATTORNEY FOR APPLICANTS  
Registration No.: 36,509  
Telephone: (302) 892-1140  
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Dated: September 11, 2003

Enclosures

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

|                        |                       |
|------------------------|-----------------------|
| Application Number     | To Be Assigned        |
| Filing Date            | Concurrently Herewith |
| First Named Inventor   | Yuqi Cai Et. Al.      |
| Art Unit               |                       |
| Examiner Name          |                       |
| Attorney Docket Number | DC8503 US NA          |

**U. S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|---|--------------------------------|--|---|
|                    |                       | US- 4,124,747   | 11-07-1978                     | Murer et al.                                       |   |
|                    |                       |   |                                |  |   |
|                    |                       | US- 4,169,816   | 10-02-1979                     | Tsien  |   |
|                    |                       |   |                                |  |   |
|                    |                       | US- 4,686,072   | 08-11-1987                     | Fukuda et al.                                      |   |
|                    |                       |   |                                |  |   |
|                    |                       | US- 5,798,188   | 08-25-1998                     | Mukohyama et al.                                   |   |
|                    |                       |   |                                |  |   |
|                    |                       | US- 6,180,275   | 01-30-2001                     | Braun et al.                                       |   |
|                    |                       |   |                                |  |   |
|                    |                       | US-   |                                |  |   |
|                    |                       |   |                                |  |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document      |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|------------------------------|---------------------|--------------------------------------|--------------------------------|--|---|----------------|
|                    |                       | Country<br>Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |  |   |                |
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|                    |                       |                              |                     |                                      |                                |  |   |                |
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|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | Application Number       | To Be Assigned        |
|   |   |    |   | Filing Date              | Concurrently Herewith |
|   |   |    |   | First Named Inventor     | Yuqi Cai Et. Al.      |
|   |   |    |   | Art Unit                 |                       |
|   |   |    |   | Examiner Name            |                       |
| Sheet   | 2 | of | 3 | Attorney Docket Number   | DC8503 US NA          |

| NON PATENT LITERATURE DOCUMENTS |                          |   |                          |
|---------------------------------|--------------------------|---|--------------------------|
| Examiner<br>Initials*           | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup>           |
|                                 |                          | G. Wu, T. Miura, S. Asai and M. Sumita, Carbon black-loading induced phase fluctuations in PVDF/PMMA miscible blends: dynamic percolation measurements, Polymer 42 (2001) 3271-3279.  | <input type="checkbox"/> |
|                                 |                          | C. del Rio and J. L. Acosta, Extrinsic conducting and superconducting polymer systems: 1. Analysis of the structure of PVDF/PS blends containing copper and carbon black fillers, Polymer, Volume 35, Number 17, (1994)   | <input type="checkbox"/> |
|                                 |                          | C. del Rio, M. C. Ojeda and J. L. Acosta, Carbon black effect on the microstructure of incompatible polymer blends, European Polymer Journal 36 (2000) 1687-1695.   | <input type="checkbox"/> |
|                                 |                          | Available: <a href="http://www.polymerprocessing.com/polymers/SMA.html">http://www.polymerprocessing.com/polymers/SMA.html</a>  | <input type="checkbox"/> |
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|                                 |                          | Available: <a href="http://www.amco.ws/plastics/nova/dylark.asp">http://www.amco.ws/plastics/nova/dylark.asp</a>  | <input type="checkbox"/> |

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|                                 |                       | Available: <a href="http://www.amco.ws/plastics/nova/dylark/dylark_332.asp">http://www.amco.ws/plastics/nova/dylark/dylark_332.asp</a>  | <input type="checkbox"/> |
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|                                 |                       | Commercial Grades of SMA Resins, ATOFINA Chemicals Inc.,  | <input type="checkbox"/> |
|                                 |                       | SMA Multi-Functional Resins, Sartomer, 2001 Product Bulletin  | <input type="checkbox"/> |
|                                 |                       | NOVA Chemicals Bold Solutions, DYLARK Engineering Resins  | <input type="checkbox"/> |

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|--------------------|--|-----------------|--|
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